I Claim.

- 1. A kiln structure for producing charcoal from wood members comprising:
 - a. a platform adapted to support the wood members above a floor surface;
 - b. the wood members supported in an axial array on the platform;
 - c. filling material surrounding each of the wood members, the filling material forming a surrounding jacket over, under and between the wood members;
 - d. a layer of sawdust applied over the surrounding jacket;
 - e. an earth layer applied over the layer of sawdust; and
 - f. at least one ignition access port extending through the surrounding jacket, sawdust layer and earth layer.
- 2. The kiln structure of claim 1, wherein the platform is adapted to support the wood members in an axial array.
- 3. The kiln structure of claim 1, wherein the earthen layer is substantially free of stone material.
- 4. The kiln structure of claim 1, wherein the earthen layer is substantially free of metal materials.
- 5. The kiln structure of claim 1, wherein the wood members comprise hardwood.
- 6. The kiln structure of claim 5, wherein the wood members comprise birch wood.
- 7. The kiln structure of claim 1, wherein the filling material comprises pieces of birch wood.
- 8. The kiln structure of claim 1, wherein the earth layer comprises clay earth.
- 9. The kiln structure of claim 1, wherein the earth layer comprises sand.
- 10. The kiln structure of claim 1, wherein the earth layer comprises a mixture of clay earth and sand.
- 11. The kiln structure of claim 1, wherein the earth layer is impervious to air.

- 12. The kiln structure of claim 1, wherein the wood members are substantially dry.
- 13. The kiln structure of claim 1, wherein the wood members each have a longitudinal axis, and the wood members are stacked axially parallel to each other.
- 14. A process for producing charcoal from hardwood comprising the steps of:
 - a. preparing a plurality of hardwood members in a predetermined array;
 - b. supporting the axial array of hardwood members on a substantially flat surface;
 - c. constructing an air impervious kiln over the array of hardwood members;
 - d. providing an access port through the kiln, the access port extending to the array of hardwood members;
 - e. igniting the hardwood members through the access port in the kiln;
 - f. closing the access port subsequent to ignition and preventing ambient air from contacting the hardwood members;
 - g. allowing the hardwood members to burn for a first predetermined amount of time;
 - h. allowing the hardwood members to cool for approximately 24 hours after the first predetermined amount of time;
 - i. removing non-hardwood impurities from among the hardwood members;
 - j. allowing the hardwood members to cool for a second cooling period of approximately 24 hours; and
 - k. additionally cooling the hardwood members by stifling the hardwood members for approximately 48 hours.
- 15. The process of claim 14 wherein the step of constructing the kiln comprises the steps of:
 - c1. surrounding the hardwood members with filling material to form a surrounding jacket;

- c2. applying a layer of sawdust over the surrounding jacket; and
- c3. applying a layer of earth material over the layer of sawdust.
- 16. The process of claim 15, wherein the layer of earth material comprises a composition of clay earth and sand.
- 17. The process of claim 16, wherein the composition of clay earth and sand is free of stone material.
- 18. The process of claim 16, wherein the composition of clay earth and sand is free of metal materials.
- 19. The process of claim 16 wherein the composition of clay earth and sand is free of stone material and free of metal material.